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**LISTING OF CLAIMS:**

Please amend the claims as follows:

1 1. (Original) A method for displaying a quality of a wireless transmission comprising:  
2 receiving the wireless data transmission wherein the wireless data transmission originates  
3 from multiple transmit antennae;  
4 determining the quality of the wireless data transmission based on a quality parameter of  
5 the wireless transmission; and  
6 displaying the quality of the wireless data transmission.

1 2 (Original) The method of claim 1 wherein the wireless data transmission comprises multiple  
2 streams of data and determining the quality of the wireless data transmission based on a quality  
3 parameter of the wireless data transmission comprises:  
4 determining a value of the quality parameter for each of the multiple streams of data.

1 3. (Original) The method of claim 1 wherein the wireless data transmission comprises multiple  
2 streams of data and determining the quality of the wireless data transmission based on a quality  
3 parameter of the wireless transmission comprises:  
4 determining an aggregate value of the quality parameter for the multiple streams of data.

1 4. (Original) The method of claim 2 wherein the quality parameter is selected from a group  
2 consisting of bit error rate, packet error rate and a frame error rate.

1 5. (Original) The method of claim 3 wherein the quality parameter is selected from a group  
2 consisting of bit error rate, packet error rate and a frame error rate.

1 6. (Original) The method of claim 2 wherein the quality parameter is selected from a group  
2 consisting of a signal-to-noise ration, a carrier-to-interference ratio and a signal-to-interference  
3 plus noise ratio.

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1 7. (Original) The method of claim 3 wherein the quality parameter is selected from a group  
2 consisting of a signal to noise ratio, a carrier to interference ratio and a signal to interference plus  
3 noise ratio.

1 8. (Original) The method of claim 2 wherein the quality parameter comprises the number of  
2 cyclic redundancy check failures.

1 9. (Original) The method of claim 3 wherein the quality parameter comprises the number of  
2 cyclic redundancy check failures.

1 10. (Original) The method of claim 1 wherein the wireless data transmission comprises multiple  
2 streams of data and determining the quality of the wireless data transmission based on a quality  
3 parameter of the wireless data transmission comprises:  
4 determining a propagation channel for the wireless data transmission; and  
5 determining a value for the quality parameter based on the propagation channel.

1 11. (Original) The method of claim 10 wherein the quality parameter is selected from a group  
2 consisting of a bit error rate of each of the multiple streams of data, a packet error rate of each of  
3 the multiple streams of data, a frame error rate of each of the multiple streams of data.

1 12. (Original) The method of claim 10 wherein the quality parameter is selected from a group  
2 consisting of a bit error rate of the multiple streams of data, a packet error rate of the multiple  
3 streams of data, a frame error rate of the multiple streams of data.

1 13. (Original) The method of claim 10 wherein the quality parameter is selected from a group  
2 consisting of signal-to-noise ratio of each of the multiple streams of data, a carrier-to-noise ratio  
3 of each of the multiple streams of data, and a signal-to-interference plus noise ratio of each of the  
4 multiple streams of data.

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1 14. (Original) The method of claim 10 wherein the quality parameter is selected from a group  
2 consisting of signal-to-noise ratio of the multiple streams of data, a carrier-to-noise ratio of the  
3 multiple streams of data, and a signal-to-interference plus noise ratio of the multiple streams of  
4 data.

1 15. (Original) The method of claim 10 wherein the quality parameter is selected from a group  
2 consisting of a channel condition number, a delay spread, a time variance, and a frequency  
3 variance.

1 16. (Withdrawn) A method for displaying a quality of a wireless data transmission  
2 comprising:  
3 receiving the wireless data transmission wherein the wireless data transmission originates  
4 from a communication system comprising multiple transmit antennae and multiple receive  
5 antennae;  
6 determining the quality of the wireless data transmission based on a quality parameter of  
7 the wireless data transmission; and  
8 displaying the quality of the wireless data transmission.

1 17. (Withdrawn) The method of claim 16 wherein the wireless data transmission comprises  
2 multiple streams of data and determining the quality of the wireless data transmission based on a  
3 quality parameter of the wireless data transmission comprises:  
4 Determining a value of the quality parameter for each of the multiple streams of data.

1 18. (Withdrawn) The method of claim 16 wherein the wireless data transmission comprises  
2 multiple streams of data and determining the quality of the wireless data transmission based on a  
3 quality parameter of the wireless transmission comprises:  
4 Determining an aggregate value of the quality parameter for the multiple streams of data.

1 19. (Withdrawn) The method of claim 17 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate, a packet error rate and a frame error rate.

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- 1 20. (Withdrawn) The method of claim 18 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate, a packet error rate and a frame error rate.
- 1 21. (Withdrawn) The method of claim 17 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3 interference plus noise ratio.
- 1 22. (Withdrawn) The method of claim 18 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3 interference plus noise ratio.
- 1 23. (Withdrawn) The method of claim 17 wherein the quality parameter comprises the  
2 number of cyclic redundancy check failures.
- 1 24. (Withdrawn) The method of claim 18 wherein the quality parameter comprises the  
2 number of cyclic redundancy check failures.
- 1 25. (Withdrawn) The method of claim 16 wherein the wireless data transmission comprises  
2 multiple streams of data and determining the quality of the wireless data transmission based on a  
3 quality parameter of the wireless data transmission comprises:  
4 Determining a propagation channel for the wireless data transmission; and  
5 Determining a value for the quality parameter based on the propagation channel.
- 1 26. (Withdrawn) The method of claim 25 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of each of the multiple streams of data, a packet error rate of  
3 each of the multiple streams of data, a frame error rate of each of the multiple streams of data.
- 1 27. (Withdrawn) The method of claim 25 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of the multiple streams of data, a packet error rate of  
3 the multiple streams of data, a frame error rate of the multiple streams of data.

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1 28. (Withdrawn) The method of claim 25 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of each of the multiple streams of data, a carrier-to-  
3 noise ratio of each of the multiple streams of data, and a signal-to-interference plus noise ratio of  
4 each of the multiple streams of data.

1 29. (Withdrawn) The method of claim 25 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of the multiple streams of data, a carrier-to-noise ratio  
3 of the multiple streams of data, and a signal-to-interference plus noise ratio of the multiple  
4 streams of data.

1 30. (Withdrawn) The method of claim 25 wherein the quality parameter is selected from a  
2 group consisting of a channel condition number, a delay spread, a time variance, and a frequency  
3 variance.

1 31. (Withdrawn) A method for displaying a quality of a wireless data transmission  
2 comprising:  
3 Receiving the wireless data transmission wherein the wireless data transmission  
4 originates from a spatial multiplexing system;  
5 Determining the quality of the wireless data transmission based on a quality parameter of  
6 the wireless data transmission; and  
7 displaying the quality of the wireless data transmission.

1 32. (Withdrawn) The method of claim 31 wherein the wireless data transmission comprises  
2 multiple streams of data and determining the quality of the wireless data transmission based on a  
3 quality parameter of the wireless data transmission comprises:  
4 determining a value of the quality parameter for each of the multiple streams of data.

1 33. (Withdrawn) The method of claim 31 wherein the wireless data transmission comprises  
2 multiple streams of data and determining the quality of the wireless data transmission based on a  
3 quality parameter of the wireless transmission comprises:

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4           Determining an aggregate value of the quality parameter for the multiple streams of data.

1   34. (Withdrawn)     The method of claim 32 wherein the quality parameter is selected from a  
2   group consisting of a bit error rate, a packet error rate and a frame error rate.

1   35. (Withdrawn)     The method of claim 32 wherein the quality parameter is selected from a  
2   groups consisting of a bit error rate, a packet error rate and a frame error rate.

1   36. (Withdrawn)     The method of claim 32 wherein the quality parameter is selected from a  
2   group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3   interference plus noise ratio.

1   37. (Withdrawn)     The method of claim 33 wherein the quality parameter is selected from a  
2   group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3   interference plus noise ratio.

1   38. (Withdrawn)     The method of claim 32 wherein the quality parameter comprises the  
2   number of cyclic redundancy check failures.

1   39. (Withdrawn)     The method of claim 33 wherein the quality parameter comprises the  
2   number of cyclic redundancy check failures.

1   40. (Withdrawn)     The method of claim 31 wherein the wireless data transmission comprises  
2   multiple streams of data and determining the quality of the wireless data transmission based on a  
3   quality parameter of the wireless data transmission comprises:  
4         determining a propagation channel for the wireless data transmission; and  
5         determining a value for the quality parameter based on the propagation channel.

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1 41. (Withdrawn) The method of claim 40 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of each of the multiple streams of data, a packet error rate of  
3 each of the multiple streams of data, a frame error rate of each of the multiple streams of data.

1 42. (Withdrawn) The method of claim 40 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of the multiple streams of data, a packet error rate of the  
3 multiple streams of data, a frame error rate of the multiple streams of data.

1 43. (Withdrawn) The method of claim 40 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of each of the multiple streams of data, a carrier-to-  
3 interference ratio of each of the multiple streams of data, and a signal-to-interference plus noise  
4 ratio of each of the multiple streams of data.

1 44. (Withdrawn) The method of claim 40 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of the multiple streams of data, a carrier-to-  
3 interference ratio of the multiple streams of data, and a signal-to-interference plus noise ratio of  
4 the multiple streams of data.

1 45. (Withdrawn) The method of claim 40 wherein the quality parameter is selected from a  
2 group consisting of a channel condition number, a delay spread, a time variance, and a frequency  
3 variance.

1 46. (Currently Amended) An apparatus for displaying [the] a quality of a wireless data  
2 transmission comprising:  
3 means for receiving the wireless data transmission wherein the wireless data transmission  
4 originates from multiple transmit antennae;  
5 means for determining the quality of the wireless data transmission based on a quality  
6 parameter of the wireless data transmission; and  
7 means for displaying the quality of the wireless data transmission.

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1 47. (Original) The apparatus of claim 46 wherein the wireless data transmission comprises  
2 multiple streams of data and the means for determining the quality of the wireless data  
3 transmission based on a quality parameter of the wireless data transmission further comprises:  
4 means for determining a value of the quality parameter for each of the multiple streams  
5 of data transmission.

1 48. (Original) The apparatus of claim 46 wherein the means for determining the quality of the  
2 wireless data transmission based on a quality parameter of the wireless data transmission further  
3 comprises:  
4 means for determining an aggregate value of the quality parameter for the multiple  
5 streams of data.

1 49. (Original) The apparatus of claim 47 wherein the means for displaying the quality of the  
2 wireless transmission comprises means for displaying the value.

1 50. (Original) The apparatus of claim 48 wherein means for displaying the quality of the  
2 wireless transmission comprises means for displaying the aggregate value.

1 51. (Original) The apparatus of claim 49 wherein the means for displaying the value comprises  
2 LED indicators.

1 52. (Original) The apparatus of claim 49 wherein the means for displaying the value comprises  
2 an analog meter.

1 53. (Original) The apparatus of claim 50 wherein the means for displaying the value comprises  
2 separate sets of LED indicators wherein each of the separate sets of LED indicators corresponds  
3 to each of the multiple streams of data.

1 54. (Original) The apparatus of claim 50 wherein the means for displaying the aggregate value  
2 comprises an analog meter.

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1 55. (Currently Amended) The apparatus of claim 49 wherein the quality parameter comprises  
2 a channel quality parameter and a data quality parameter and the means for displaying the value  
3 of the quality parameter comprises a first and second analog meter wherein the first analog meter  
4 displays [the] a value of the channel quality parameter and the second analog meter displays  
5 [the] a value of the data quality parameter.

1 56. (Currently Amended) The apparatus of claim 49 wherein the quality parameter comprises  
2 a channel quality parameter and a data quality parameter and the means for displaying the value  
3 of the quality parameter comprises a first and second set of LED indicators wherein the first set  
4 of LED indicators corresponds to the channel quality parameter and the second set of [Led] LED  
5 indicators corresponds to the data quality parameter.

1 57. (Withdrawn) A wireless communication system comprising:  
2 a base transceiver station wherein the base transceiver station includes a multiple transmit  
3 antennae array;  
4 means for receiving a wireless data transmission from the multiple transmit antennae  
5 array;  
1 means for determining a quality of the wireless data transmission based on a quality  
2 parameter of the wireless data transmission; and  
3 means for displaying the quality of the wireless data transmission.

1 58. (Withdrawn) The system of claim 57 wherein the wireless data transmission comprises  
2 multiple streams of data and the means for determining the quality of the wireless data  
3 transmission based on a quality parameter of the wireless data transmission comprises:  
4 means for determining a value of the quality parameter for each of the multiple streams  
5 of data.

1 59. (Withdrawn) The system of claim 57 wherein the wireless data transmission comprises  
2 multiple streams of data and the means for determining the quality of the wireless data  
3 transmission based on a quality parameter of the wireless transmission comprises:

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4 Means for determining an aggregate value of the quality parameter for the multiple  
5 streams of data.

1 60. (Withdrawn) The system of claim 58 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate, a packet error rate and a frame error rate.

1 61. (Withdrawn) The system of claim 59 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate, a packet error rate and a frame error rate.

1 62. (Withdrawn) The system of claim 58 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3 interference plus noise ratio.

1 63. (Withdrawn) The system of claim 59 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio, a carrier-to-interference ratio and a signal-to-  
3 interference plus noise ratio.

1 64. (Withdrawn) The system of claim 58 wherein the quality parameter comprises the  
2 number of cyclic redundancy check failures.

1 65. (Withdrawn) The system of claim 59 wherein the quality parameter comprises the  
2 number of cyclic redundancy check failures.

1 66. (Withdrawn) The system of claim 57 wherein the wireless data transmission comprises  
2 multiple streams of data and the means for determining the quality of the wireless data  
3 transmission based on a quality parameter of the wireless data transmission comprises:  
4 Means for determining a propagation channel for the wireless data transmission; and  
5 Means for determining a value for the quality parameter based on the propagation  
6 channel.

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- 1 67. (Withdrawn) The system of claim 66 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of each of the multiple streams of data, a packet error rate of  
3 each of the multiple streams of data and a frame error rate of each of the multiple streams of  
4 data.
- 1 68. (Withdrawn) The system of claim 66 wherein the quality parameter is selected from a  
2 group consisting of a bit error rate of the multiple streams of data, a packet error rate of the  
3 multiple streams of data and a frame error rate of the multiple streams of data.
- 1 69. (Withdrawn) The system of claim 66 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of each of the multiple streams of data, a carrier-to-  
3 interference ratio of each of the multiple streams of data and a signal-to-interference plus noise  
4 ratio of each of the multiple streams of data.
- 1 70. (Withdrawn) The system of claim 66 wherein the quality parameter is selected from a  
2 group consisting of a signal-to-noise ratio of the multiple streams of data, a carrier-to-  
3 interference ratio of the multiple streams of data and a signal-to-interference plus noise ratio of  
4 the multiple streams of data.
- 1 71. (Withdrawn) The system of claim 66 wherein the quality parameter is selected from a  
2 group consisting of a channel condition number, a delay spread, a time variance, and a frequency  
3 variance.
- 1 72. (Withdrawn) A wireless communication system comprising:  
2 A base transceiver station wherein the base transceiver station includes a multiple  
3 transmit antennae array;  
4 A multiple receive antennae array for receiving a wireless data transmission from the  
5 multiple transmit antennae array;  
6 Means for determining a quality of the wireless data transmission based on a quality  
7 parameter of the wireless data transmission; and

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8 Means for displaying the quality of the wireless data transmission.

1 73. (Withdrawn) A wireless communication system comprising:

2 A base transceiver station wherein the base transceiver station implements a spatial  
3 multiplexing technology;

4 Means for receiving a wireless data transmission from the base station;

5 Means for determining a quality of the wireless data transmission based on a quality  
6 parameter of the wireless data transmission; and

7 Means for displaying the quality of the wireless data transmission.

1 74. (Previously presented) A method according to claim 1, wherein the multiple streams  
2 comprising the wireless data transmission are received via two or more receive antennae.

1 75. (Previously presented) An apparatus according to claim 49, further comprising:  
2 two or more receive antennae through which the means for receiving receives multiple  
3 streams of the wireless transmission.

1 76. (Previously presented) An apparatus comprising:  
2 a receiver, to receive a wireless transmission wherein the wireless transmission originates  
3 from multiple transmit antennae; and  
4 a quality display unit, responsive to if not embedded within the receiver, to determine a  
5 quality of the received wireless data transmission based, at least in part, on an ascertained one or  
6 more quality parameter(s) associated with the wireless data transmission, and to provide a  
7 display of such quality of the wireless data transmission.

1 77. (Previously presented) An apparatus according to claim 76, the quality display unit  
2 comprising:  
3 a quality indicator processor, responsive to a channel estimator in the receiver, to  
4 determine a quality of the received wireless data transmission.

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- 1 78. (Previously presented) An apparatus according to claim 77, the quality display unit  
2 comprising:  
3 a display, responsive to the quality indicator processor, to display the quality of the  
4 wireless data transmission.
- 1 79. (Previously presented) An apparatus according to claim 76, wherein the wireless  
2 transmission is comprised of a multiple spatial streams.
- 1 80. (Previously presented) An apparatus according to claim 79, the quality display unit to  
2 determine a quality value for each of the multiple spatial streams and to display at least a subset  
3 of the determined quality values.
- 1 81. (Previously presented) An apparatus according to claim 79, the quality display unit to  
2 display a representation of a mathematical combination of the determined quality values for each  
3 of the multiple spatial streams.
- 1 82. (Previously presented) An apparatus according to claim 76, further comprising:  
2 two or more receive antennae through which the receiver receives the wireless  
3 transmission.
- 1 83. (Previously presented) An apparatus according to claim 76, wherein the determined  
2 quality comprises a channel quality parameter and a data quality parameter, the quality display  
3 unit including a first and second set of indicators, wherein the first set of indicators to display a  
4 representation of the channel quality parameter and the second set of indicators to display a  
5 representation of the data quality parameter.
- 1 84. (Previously presented) A system comprising:  
2 two or more antennae responsive to a wireless transmission;  
3 a receiver, responsive to the two or more antennae, to receive a wireless transmission  
4 wherein the wireless transmission originates from multiple transmit antennae, to determine a

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5 quality of the received wireless data transmission based, at least in part, on an ascertained one or  
6 more quality parameter(s) associated with the wireless data transmission; and  
7 a display, responsive to the receiver, to provide a display of such quality of the wireless  
8 data transmission.

1 85. (Previously presented) A system according to claim 84, wherein the wireless transmission  
2 is comprised of a multiple spatial streams.

1 86. (Previously presented) A system according to claim 85, the receiver to determine a quality  
2 value for each of the multiple spatial streams and to display at least a subset of the determined  
3 quality values.

1 87. (Previously presented) A system according to claim 85, the receiver to display a  
2 representation of a mathematical combination of the determined quality values for each of the  
3 multiple spatial streams.

1 88. (Previously presented) A system according to claim 84, wherein the determined quality  
2 comprises a channel quality parameter and a data quality parameter, the quality display unit  
3 including a first and second set of indicators, the first set of indicators to display a representation  
4 of the channel quality parameter and the second set of indicators to display a representation of  
5 the data quality parameter.

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